2012 WSU Variety Testing Hard Spring Wheat Trial, Almira

Variety Name *Hard White Italicized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2012 YIELD (BU/A)	2012 TEST WT (LBS/BU)	2012 PROTEIN (%)	2012 PLANT HT	2012 LODGING (%)
IDO694				**55**	**56.2**	14.5	31	0
LCS-ALbany				**52**	54.8	16.3	35	0
WA 8167				**52**	54.9	15.7	36	0
Dayn (WA 8123)		59	65	**52**	**56.7**	16.9	34	0
Tara 2002	53	55	58	**51**	**56.4**	14.9	36	0
WB-Fuzion	58	59	59	**50**	**55.7**	15.7	36	0
Lassik		55	60	**50**	**55.6**	13.5	31	0
SY605 CL				49	**57.1**	18.1	39	0
LCS-Powerplay			56	49	**55.5**	15.2	35	0
Jedd				49	**56.1**	15.5	31	0
Expresso				49	54.6	17.5	32	0
WA 8168				49	54.4	15.0	35	0
Bullseye	53	54	56	48	**56.5**	16.6	32	0
WA 8164				47	55.1	16.1	34	0
Hank	53	54	54	47	53.6	15.6	34	0
Jefferson	54	55	57	46	54.9	16.7	34	0
Scarlet	53	51	55	46	52.8	18.0	36	0
WB Hartline				46	53.9	14.3	34	0
WA 8163				45	**57.1**	15.8	35	0
BR7030		54	57	45	54.1	17.3	33	0
Kelse	53	52	53	43	53.8	17.9	36	0
Patwin 515			55	43	51.1	17.4	27	0
Glee (WA 8074)		55	57	41	52.4	18.3	34	0
Clear White 515			55	41	51.2	16.9	32	0
WA 8166				41	55.1	16.3	35	0
LCS-Buck Pronto	50	53	53	38	53.1	16.1	34	0
WA 8165				37	**56.4**	19.5	43	0
Otis		47	50	36	54.6	15.5	38	0
V272				36	55.2	16.9	27	0
Hollis	49	48	49	30	52.5	18.3	43	10
C.V. %	9	9	9	10	2.7	11.4	3	949
LSD (.10)	2	3	4	5	1.6	2.0	1	3
Average	53	54	56	45	54.7	16.4	34	0
Highest	58	59	65	55	57.1	19.5	43	10
Lowest	49	47	49	30	51.1	13.5	27	0

Almira Hard Spring Wheat – *Preliminary Data*

1. This summary includes duplicate hard spring wheat trials except one was sprayed with fungicide and the other was not sprayed. Grain yield in these 2012 Almira hard spring wheat trials averaged 45 bushels/acre, 8 bushels/acre lower than the 5-year average in the fungicide sprayed trial, and the non-sprayed trial averaged 44 bushels/acre. The Almira trial was located about 7 miles north of Almira, WA (D. McKay, cooperator).
2. These trials were seeded on 24 April, 2012 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disk plot drill set on 6-inch spacing. Base fertilizer was 75#N/acre applied pre-plant and a soil test showed 307#N/acre available, no additional fertilizer was applied for protein in these hard trials based on projected yield. Spring seeding conditions were good and establishment was uniform. Tilt® fungicide at 4 oz/acre was applied 24 May to the sprayed trial and stripe rust levels were low.
3. In the sprayed trial, yields ranged from 30 to 55 bu/acre, while in the non-sprayed trial, yields ranged from 33 to 54 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 7 of the 30 entries are in this group in the sprayed and 8 of the 30 are in the top group in the non-sprayed. 'LCS-Albany' was the highest yielding named variety entry in the sprayed trial and 'WB Fusion' was the highest yielding over 5 years of results at this site. WB Fusion was the highest yielding named variety in the non-sprayed trial. Yields in both trials and the difference in yield and percentage difference between sprayed and non-sprayed for each entry are in a separate comparison table. Yield advantage in the sprayed trial averaged only 1 bu/acre.
4. Test weights were very low indicating a good grain filling averaging 54.7 lbs/bu and ranged from 51.1 to 57.1 lbs/bu in the sprayed trial, and averaged 55.1 lbs/bu and ranged from 51.9 to 57.9 lbs/bu in the non-sprayed trial. Grain protein averaged 16.4% with a range of 13.5 to 19.5% in the sprayed trial, and protein averaged 16.1% with a range of 13.9 to 18.2% in the non-sprayed trail also indicating stress during grain fill and high residual N. There was minor lodging by 'Hollis' in the sprayed trial.